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STABILIZED CD-4 ONE-PART FILM DEVELOPER CONCENTRATES

ABSTRACT OF THE DISCLOSURE

Photographic developer replenisher concentrates comprising more reactive developers, like 4(N-ethyl-N-2-hydroxyethyl)-2methylphenylenediamine (CD-4) undergo rapid oxidation, consequently, have shorten shelf-life stabilities. Hydroxylamine type derivatives, while disclosed as being useful as a class of antioxidants for stabilizing photographic developer replenishers, most were found to impart either inadequate shelf-life stability for CD-4 developer, or interfered with "satisfactory developer Surprisingly, it was discovered the shelf-life replenisher concentrates comprising CD-4 stability of photographic developer could be extended for periods of 2 years or longer, and also provide satisfactory developer performance when the hydroxylamine antioxidant comprises at least N, N-bis(2sulfoethyl) hydroxylamine (SEHA) or a salt thereof.